

# KARTIKEY PANDEY

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## Education

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### Bachelor of Science in Computer Engineering

Class of 2023

University of Cincinnati, Ohio

- **Minors:** Math & Physics
- **GPA:** 3.4 | University Honors Scholar

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## Skills

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**Programming** - C/C++ | Data Structures | Java | Python | Kotlin | Verilog

**Tools** - MATLAB | LabView | AutoCAD | Git/Version Control | MS Office Suite | Vivado

**Web Development** - HTML/HTML5 | CSS/CSS3 | JavaScript | PHP | MySQL

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## Relevant Experience

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### Software Engineering Co-op

Jan 2020 - May 2020

Chamberlain Group, Chicago

- Developed an innovative IoT solution based on LoRa that solves a prevalent problem faced by Chamberlain Group and its partners in construction industry.
- Used Kotlin to develop an interactive android app for the product solution.
- Wrote python scripts to program a FiPy to enable LoRa connectivity and connecting to AWS-IoT.

### LEOPARDSat-1 Power Systems Engineer

April 2019 - Present

Project LEOPARD, UC CubeCats

- Designing battery/power distribution board, solar panels, and solar panel deployment mechanisms
- Testing the engineering model to validate design and ensure requirements are met for the CubeSat to be launched in NASA's CubeSat Launch Initiative by Fall 2020

### Web Developer

Sept. 2018 - Present

University of Cincinnati, Cincinnati

- Redesigned the Department of Chemical Engineering's website to make it accessible
- Created and managed a PHP-based database website for the S-STEM Program

### Software & Payload Team Lead

Sept. 2018 - April 2019

Project Sphynx, UC CubeCats

- Led a team of 11 engineering students to build a high-altitude balloon payload
- Designed the circuit boards and software architecture based on C++ for the payload
- Built an Arduino-based Muon Detector to measure the number of muon events at different altitudes

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## Leadership

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### Vice-President

May 2020 - Present

UC CubeCats

- Responsible for running our educational program for freshmen, CATiSE(CubeCats Applied Training in Space Exploration).
- Preside at all the CubeCats meetings.

### Secretary

Dec. 2018 - May 2020

UC CubeCats

- Responsible for drafting meeting agendas, supplying materials, and executing follow-ups for meetings
- Managing general organization (electronic, physical, etc.) of the UC CubeCats
- Designed and developed a responsive, visually appealing, and user-friendly website from scratch

### Founder & President

Nov. 2016 - Present

Dwaar Lucknow, India

- Started an organization called 'Dwaar Lucknow' to create awareness among people towards social welfare organizations. Managed a team of 30 people to work towards our goal
- Currently, working in collaboration with more than 25 non-profits of Lucknow city